



#3 4-16-02 3732

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Applicant : Masashi SAITO
Serial No. : 09/750,605
Filed : December 28, 2000
For : INTRAORAL IMAGING CAMERA SYSTEM
Group Art Unit : 3732
Examiner : (Not yet known)

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Frank J. Jordan
(Name of Registered Representative)

[Signature] 05/31/01
(Signature and Date)

Assistant Commissioner
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INFORMATION DISCLOSURE STATEMENT

Sir:

Attached hereto is a copy of Form PTO-1449 together with copies of the two references listed therein.

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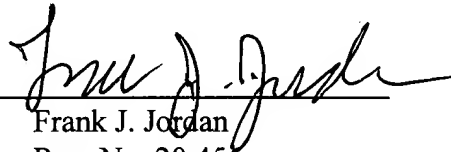
Serial No. 09/750,605

This Information Disclosure Statement is being filed prior to issuance of the first Official Action. Therefore, there is no charge for filing this IDS.

Respectfully submitted,

JORDAN AND HAMBURG LLP

By



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Information Disclosure Statement

1 While conducting experiments on taking photographs of the interior of an oral cavity with digital cameras and conventional ring-flash, I found that the direction of the light-receiving surface of the photo-metering sensor has to be located on the optical axis of the lens.

2 I supposed that "Macro Flash Sensor Type-2," a photo-metering sensor manufactured by National (refer to the attached National/Panasonic catalogue; Products No. PW-52M) was useful because the sensor was an object independent from the control part of the ring-flash.

3 Ring-flashes easily available on the market were manufactured only by SUNPAK KABUSHIKI KAISHA or SUNPAK INC. and they do not adapt to the National "Macro Flash Sensor Type-2". In order to make available the SUNPAK ring-flashes (refer to the attached SUNPAK catalogue; products no. auto DX8R or auto DX12R), I chose a SUNPAK photo-metering sensor and the SUNPAK "DX Remote Code"(refer to SANPAK catalogue; products no.EXT-09 or EXT-10), whose combination enabled the photo-metering sensor located apart from the control part of the ring-flash and provided on top of the front of the lens-barrel.

4 However, as the combination did not work well, I could not take such good photographs as I had expected. Accordingly, I changed the location of the photometering sensor in several ways as well as the angle at which the photo-metering sensor was attached to the lens-barrel.

5 Then, I found attaching the sensor to the lower part of the lens-barrel and setting it at an angle of about 23 degrees against the surface perpendicular to the optical axis of the lens works well in various conditions. Further, even in a few cases in which appropriate exposures are not obtained, free rotation of the photo-metering sensor in the circumferential direction of the ring flash enables appropriate exposures.

March 14, 2001

Masashi SAITO